6 Budgat Place

Selaries (* **********************************		is women's	www. 20.00	
Overhead			100.00	
Other	The second second	Park plane		
	Date:	August 6.	1954 .00	

- 1. Name of Investigator: Philip O'Bryan Montgomery
- 2 Title: Associate Professor of Pathology wass, in last organ, southing the south to the hald from grant, below breat to the hald from the hald as a little was characters.

  3 Institution Southwestern Medical School of The University of Texas, characters.

  3 Address 2211 Oak Lawn Avenue, Dallas 19, Texas
- 4. Project or Subject: The investigation of the possible role of chronic inflammation in chemical carcinogenesis.
- v socionil secretaria. Here for first queri. The direction of the project will deposit when a tro results of the conseriousts. It is noticinated that the law howing the for the regulements will to between 15,000,00 and flagogo.00 for the latter to fire to here.
- this laboration, as metapose already to the information of it will be prepared by centrifugation, and daily information of it will be prepared with the addition of a small information by a text amount of Benzpyrene added to the p turpentine. This amount will be accurately wall that the measured and then recalculated on a per unit volume basis by its spectral aborated in information or painting until the Benzpyrene no longer gives its characteristic aboration or painting until the Benzpyrene no longer gives its characteristic aboration of information of the information in the information of the information of the information in the information of the information in the information is to learn whether or not a carcinogenic was positional substance in this case Benzpyrene can alter a sterile, chronic inflammation over though the carcinogenic even though the carcinogen is not detectable in its original form by light absorption technics, and to learn more about the role of garms chronic inflammation in carcinogenesis.

Signature Fix A Project Project

business Officer of the huttading

(1 technician) \_**\$3,000,0**0 Expendable Supplies -2.000.00N Permanent Equipment Overhead Other

7. Anticipated Duration of Work.

8. Facilities and Staff Available General Taboratory space, animal cages, routine tissue preparation laboratory, histochemistry laboratory, two full-time technicians to be paid from grant), Spinco Model Lultra-centrifuge, Ultra-violet microscope with xim television camera and screen, RCA electron microscope. Student fellows during summer months. " ISMAA

> The knowledgetten of the pensitue role of chronic influential I in themisal carsinagements.

9. Additional Requirements: None for first year. The direction of the project will depend upon x the results of the experiments. It is anticipated that the infollowing year's requirements will be between \$5,000,00 and \$10,000,00 per year for three to five years.

10. Additional Information (Including relation of work to other projects and other sources of supply); The equipment for this laboratory, as outlined above, has been donated by private subscription. The two fulltime technicians now at work and are supported by The University of Texas. The histochemical work now in progress is supported by U.S.P.H.S. Grant A-643 from the Committee on the National Advisory Arthritis and Metabolic Diseases Council. No other ald is available. The current work in the laboratory is outlined as follows: 1) A study of dermal collagen in relation to skin cancer in man and experimental animals. In this study dermal collagen is being studied by a battery of histochemical tests and by microspectroscopy. Preliminary results indicate that the collagen adjacent to human skin cancer is histochemically very different than normal and ga that it shows a very different absorption pattern from 250 to 320 millimicrons. This work is now being extended to methylcholanthrene carcinogenesis of the skin of mice. 2) The investigation of cortisone inhibition of normal and neoplastic growth. Preliminary studies indicate that cortisone inhibition of wound healing in rats may be completely reversed by the local application of beef amniotic fluid. Similarly, cortisone inhibition of growth in chicks may be overcome by subcutaneous injections of beef amniotic fluid. These studies are now being extended to the attempt to reverse cortisone inhibition of methylcholanthrene-induced skin tumors in mice, with beef amniotic fluid. To CRIL-SIAR ANGERS DECOMES CARCINOGRAIG

absurption to the state of the state of about the role of sking chronic influences in inveloperactic

> Signature 9x /s/ p o'b Montgomery Director of Project

> > Business Officer of the Institution